

Product datasheet

Recombinant Human Wee1 protein (Tagged) ab271794

1 Image

Description

Product name	Recombinant Human Wee1 protein (Tagged)
Purity	>= 86 % SDS-PAGE. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	P30291
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<pre> MDTEKSGKRE FDVRQTPQVN INPFTPDSLL LHSSGQCRRR KRTYWNDSCG EDMEASDYEL EDETTPAKRI TITESNMKSR YTTEFHELEK IGSGEFGSVF KCVKRLDGC IYAIKRSKKPL AGSVDEQNAL REVYAHAVLG QHSHVVRYFS AWAEDDHMLI QNEYCNGGSL ADAISENYRI MSYFKEAELK DLLLQVGRGL RYHSM SLVH MDIKPSNIFI SRTSIPNAAS EEGDEDDWAS NKVMFKIGDL GHVTRISSPQ VEEGDSRFLA NEVLQENYTH LPKADIFALA LTVVCAAGAE PLPRNGDQWH EIRQGRLPRI PQVLSQEFTE LLKVMIHDPD ERRPSAMALV KHSVLLSASR KSAEQLRIEL NAEKFKNSLL QKELKKAQMA KAAAEERALF TDRMATRSTT QSNRTSRLIG KKMNRSVSLT IY </pre>
Predicted molecular weight	50 kDa including tags
Amino acids	215 to 646
Tags	DDDDK tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab271794** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Form Liquid

Preparation and Storage

Stability and Storage

Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 20% Glycerol (glycerin, glycerine)

100 µg/mL DDDDK peptide

General Info

Function

Acts as a negative regulator of entry into mitosis (G2 to M transition) by protecting the nucleus from cytoplasmically activated cyclin B1-complexed CDK1 before the onset of mitosis by mediating phosphorylation of CDK1 on 'Tyr-15'. Specifically phosphorylates and inactivates cyclin B1-complexed CDK1 reaching a maximum during G2 phase and a minimum as cells enter M phase. Phosphorylation of cyclin B1-CDK1 occurs exclusively on 'Tyr-15' and phosphorylation of monomeric CDK1 does not occur. Its activity increases during S and G2 phases and decreases at M phase when it is hyperphosphorylated. A correlated decrease in protein level occurs at M/G1 phase, probably due to its degradation.

Sequence similarities

Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. WEE1 subfamily. Contains 1 protein kinase domain.

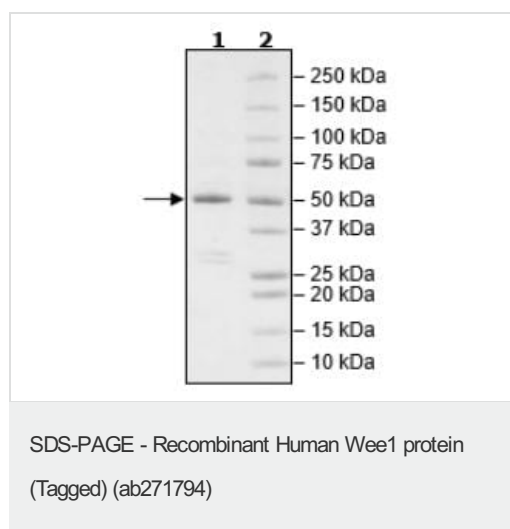
Post-translational modifications

Phosphorylated during M and G1 phases. Also autophosphorylated. Ubiquitinated and degraded at the onset of G2/M phase.

Cellular localization

Nucleus.

Images



SDS-PAGE analysis of ab271794.

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